

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-183278

(43)Date of publication of application : 28.07.1988

(51)Int.Cl.

F04B 31/00

F04B 39/00

(21)Application number : 62-015515

(71)Applicant : MATSUSHITA ELECTRIC IND CO LTD

(22)Date of filing : 26.01.1987

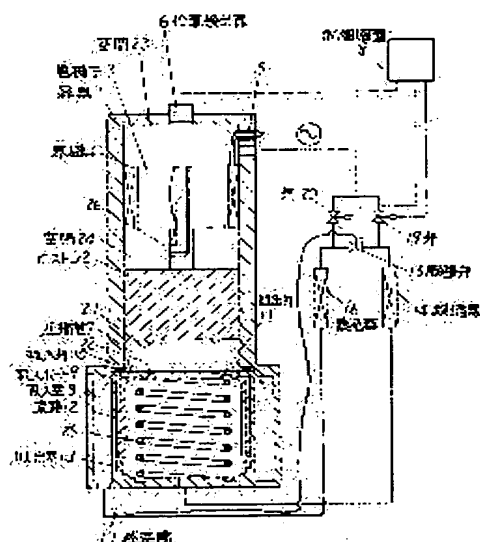
(72)Inventor :
INOTA KENICHI
HARADA TERUMARU
FUJITA TATSUO
ADACHI KINICHI

(54) COMPRESSOR

(57)Abstract:

PURPOSE: To improve the adiabatic efficiency of a compressor and reduce the power consumption by providing an intake valve located in a container in a flow path affording communication between an intake chamber and a compression chamber, while enabling the flow path to be interrupted by the slide surfaces between a piston and the inner wall of container.

CONSTITUTION: A piston 2 coupled with an armature 3 of a linear motor is fitted slidably in a container 1 so that a compression chamber 7 is defined on the lower end face side of piston 2. When pressure in the compression chamber 7 is reduced by the upward movement of piston 2, an intake valve 10 provided on the lower portion of container 1 is opened so that refrigerant having low temperature and pressure in the intake chamber 8 flows into the compression chamber 7. Also, the refrigerant in the compression chamber 7 is compressed by the succeeding downward movement of piston 2 to push open a discharge valve 11 and send the high temperature and pressure refrigerant into the discharge chamber 13. When the piston 2 ascends again through the lower dead point, the discharge valve 11 is closed and the intake valve 10 is opened to take in the refrigerant again.



BEST AVAILABLE COPY

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]